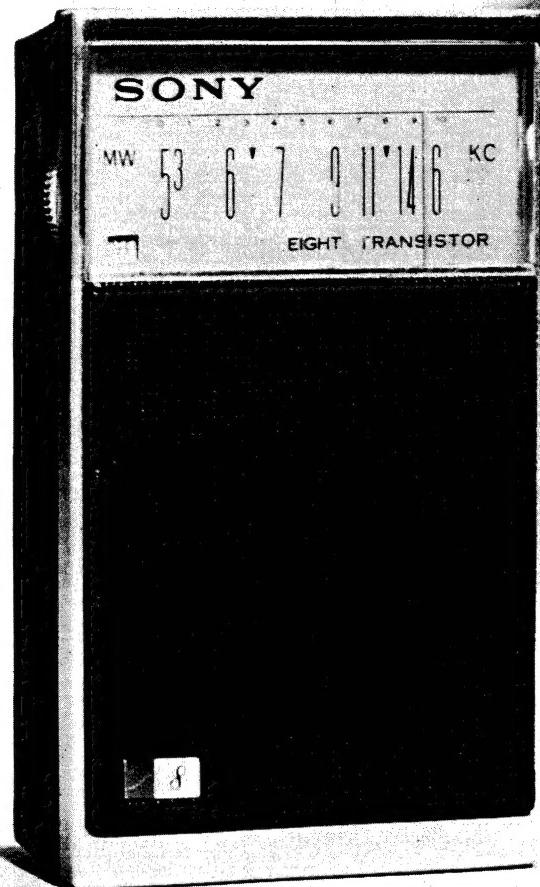


TR-826



Specifications

- Circuit : 8 Transistor Superheterodyne
Frequency Coverage : 530—1,605 Kc (566—187 m)
Intermediate Frequency : 455 Kc
Antenna System : Built-in Ferrite Bar Antenna
Maximum Sensitivity : 100 μ V/m with built-in Ferrite Bar Antenna
(at 10 mW output)
Selectivity : 18 dB at 10 Kc off resonance, at 1,400 Kc
Output Power : 120 mW (undistorted)
Current Drain : 7 mA at zero signal
 32 mA at 120 mW output
Speaker : 2-3/8" (6 cm) PM dynamic, 8 Ω
Battery : Eveready 216 (BL-006P) or
 Equivalent (9 Volts)
Dimensions : 4-1/8" \times 2-1/2" \times 1-1/8"
 (105 \times 63 \times 28 mm)
Weight : 0.44 lb (0.2 Kg.)

SONY®
SERVICING GUIDE

Adjustment and Alignment

a) Frequency Coverage

Lower Limit	Adjust	Upper Limit	Adjust
520 Kc	Core of OSC Coil (LO)	1,680 Kc	OSC Trimmer (C ₂₋₂)

b) Tracking Alignment

Checking Point	Adjust	Checking Point	Adjust
620 Kc	Position of ANT Coil (LA)	1,400 Kc	ANT Trimmer (C ₂₋₁)

To Remove the Chassis and Printed Circuit Board from the Cabinet

- 1) Loosen the Back Cover Securing Screw and open the Back Cover.
- 2) Remove three Nuts (①, ② and ③) as shown in Fig. 1.
- 3) Unsolder the Speaker Lead Wires (White and Black) at the Speaker terminals if necessary.

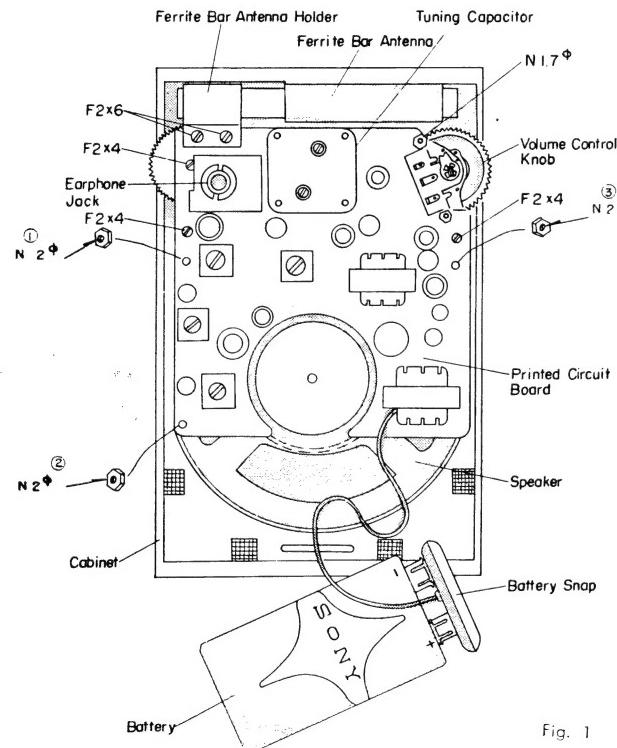
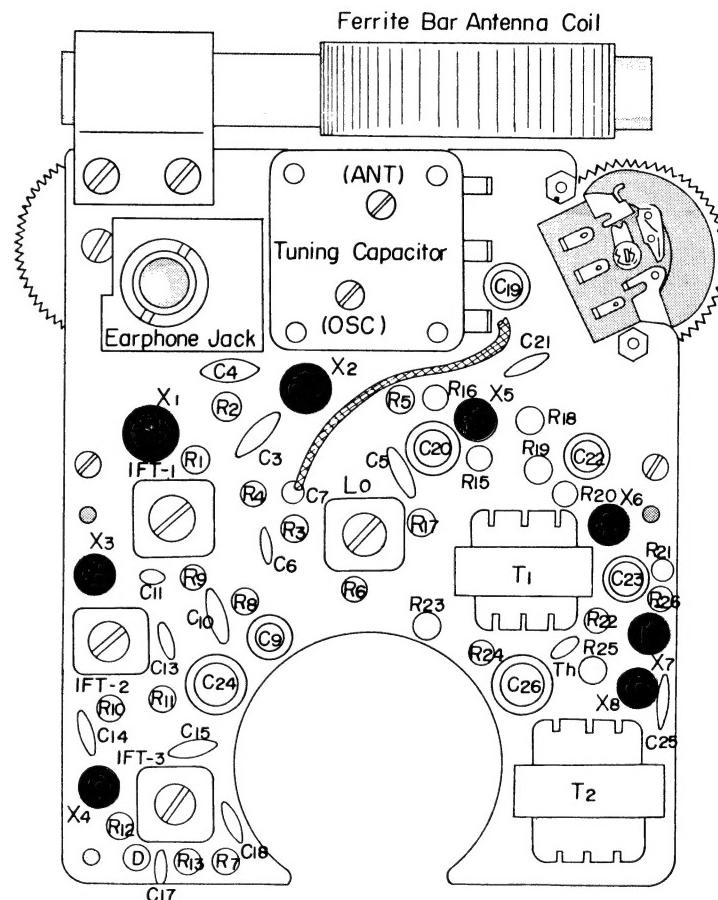


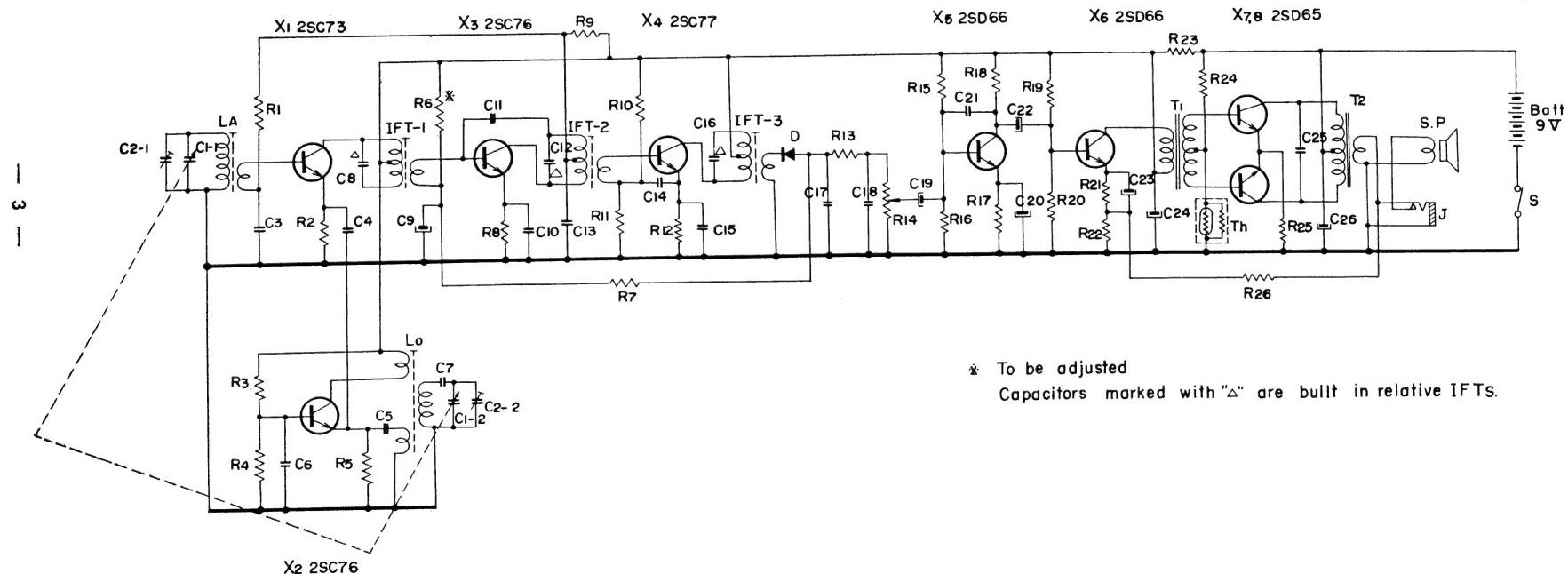
Fig. 1

Mounting Diagram

—Parts Side—



Schematic Diagram



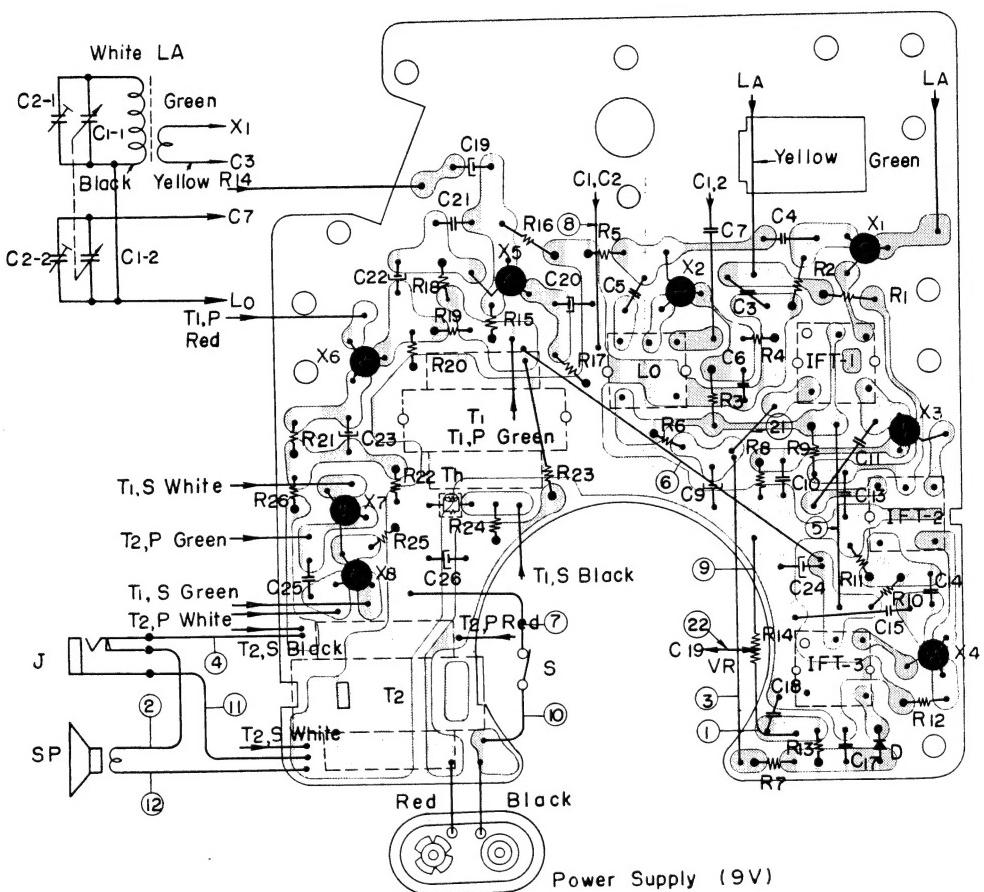
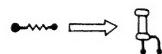
Electronic Parts List

Part No.	Symbol	Description	Part No.	Symbol	Description	Part No.	Symbol	Description
1-401-173-11	I _A	Ferrite Bar Antenna	1-203-425-00	R ₄	5.6KΩ $\frac{1}{16}$ W Carbon	1-151-051-00	C _{2~1~2}	Trimmer Capacitor, 2 unit
1-405-095-11	Lo	Oscillator Coil	1-203-446-00	R ₅	2KΩ " "	1-101-073-15	C ₃	0.02μF Ceramic
1-403-057-02	IFT ₁	IF Transformer	1-203-614-00	*R ₆	100KΩ " "	1-105-104-11	C ₄	0.002μF Mylar
1-403-058-02	IFT ₂	"	1-203-425-00	R ₇	5.6KΩ " "	1-105-104-11	C ₅	0.002μF "
1-403-059-02	IFT ₃	"	1-203-420-00	R ₈	470Ω " "	1-101-072-15	C ₆	0.01μF Ceramic
1-423-066-11	T ₁	Driver Transformer	1-203-427-00	R ₉	10KΩ " "	1-103-024-11	C ₇	130PF Styrol
1-427-090-13	T ₂	Output Transformer	1-203-635-00	R ₁₀	39KΩ " "		C ₈	150PF (built in IFT ₁)
1-502-093-11	SP	Speaker	1-203-434-00	R ₁₁	3.3KΩ " "	1-121-103-05	C ₉	10μF 3V Electrolytic
1-507-011-00	J	Earphone Jack	1-203-420-00	R ₁₂	470Ω " "	1-101-073-15	C ₁₀	0.02μF Ceramic
1-528-006-00	Batt.	Battery (9 V)	1-203-421-00	R ₁₃	1KΩ " "	1-101-009-11	C ₁₁	1PF "
	X ₁	Transistor 2SC73	1-221-130-11	R ₁₄	5KΩ Volume Control		C ₁₂	150PF (built in IFT ₂)
	X ₂	" 2SC76	1-203-593-00	R ₁₅	36KΩ $\frac{1}{16}$ W Carbon	1-101-072-15	C ₁₃	0.01μF Ceramic
	X ₃	" 2SC76	1-203-425-00	R ₁₆	5.6KΩ " "	1-101-072-15	C ₁₄	0.01μF "
	X ₄	" 2SC77	1-203-421-00	R ₁₇	1KΩ " "	1-101-072-15	C ₁₅	0.01μF "
	X ₅	" 2SD66	1-203-421-00	R ₁₈	1KΩ " "		C ₁₆	150PF (built in IFT ₃)
	X ₆	" 2SD66	1-203-428-00	R ₁₉	27KΩ " "	1-101-072-15	C ₁₇	0.01μF Ceramic
	X ₇	" 2SD65	1-203-427-00	R ₂₀	10KΩ " "	1-101-072-15	C ₁₈	0.01μF "
	X ₈	" 2SD65	1-203-421-00	R ₂₁	1KΩ " "	1-121-103-05	C ₁₉	10μF 3V Electrolytic
	D	Diode 1T23G	1-203-418-00	R ₂₂	10Ω " "	1-121-103-05	C ₂₀	10μF 3V "
	Th	Thermistor CS-120	1-203-419-00	R ₂₃	220Ω " "	1-101-140-14	C ₂₁	0.005μF Ceramic
			1-203-426-00	R ₂₄	7.5KΩ " "	1-121-104-05	C ₂₂	10μF 6V Electrolytic
		Resistor	1-203-418-00	R ₂₅	10Ω " "	1-121-101-05	C ₂₃	30μF 3V "
1-203-427-00	R ₁	10KΩ $\frac{1}{16}$ W Carbon	1-203-610-00	R ₂₆	680Ω " "	1-121-110-05	C ₂₄	30μF 10V "
1-203-631-00	R ₂	20KΩ " "				1-101-073-15	C ₂₅	0.02μF Ceramic
1-203-635-00	R ₃	39KΩ " "	1-151-051-00	C _{1~1~2}	Capacitor	1-121-110-05	C ₂₆	30μF 10V Electrolytic
					Tuning Capacitor, 2 gang			

* To be adjusted

Mounting Diagram

— Printed Side —



No.	PVC Wire Colour	Connection	No.	PVC Wire Colour	Connection
①	White	R13 — R14	⑦	Red	C26 — S
②	"	J — SP	⑧	Black	L ₀ — C1,2
③	Yellow	R6 — R7	⑨	"	R14 — C24
④	"	J — R26	⑩	"	-B — S
⑤	Red	IFT ₁ — IFT-3	⑪	"	J — G
⑥	"	C24 — R15	⑫	"	SP — G

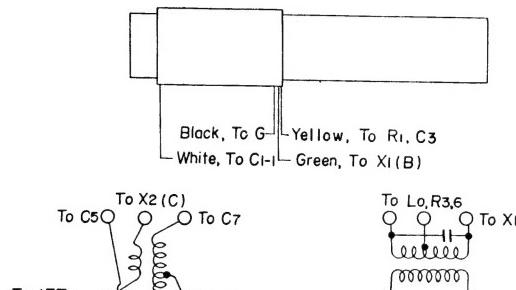
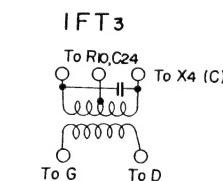
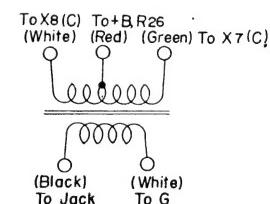
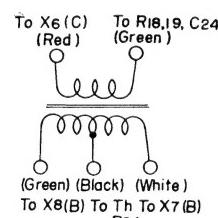
Tinned Copper Wire		
(21)		IFT ₁ — C ₉
(22)		R14 — C ₁₉

T₁,P — T₁,Primary

T₂,P — T₂,Primary

T₁,S — T₁,Secondary

T₂,S — T₂,Secondary

Adjustment and Alignment**a) Frequency Coverage****LA. MW, Ferrite Bar Antenna****Lo. MW, OSC Coil****IFT₂****T₁ Driver Transformer**

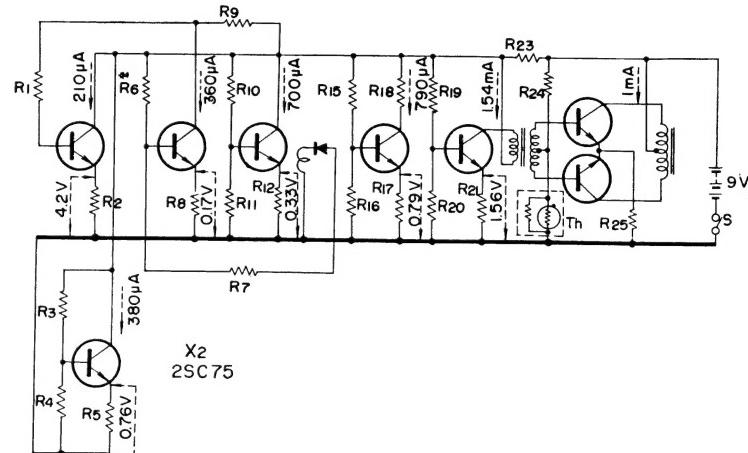
	Impedance	DC Resistance
Primary	3.9 KΩ	330Ω
Secondary	1.8 KΩ	180Ω

T₂ Output Transformer

	Impedance	DC Resistance
Primary	820 Ω	105Ω
Secondary	8Ω	1.1Ω

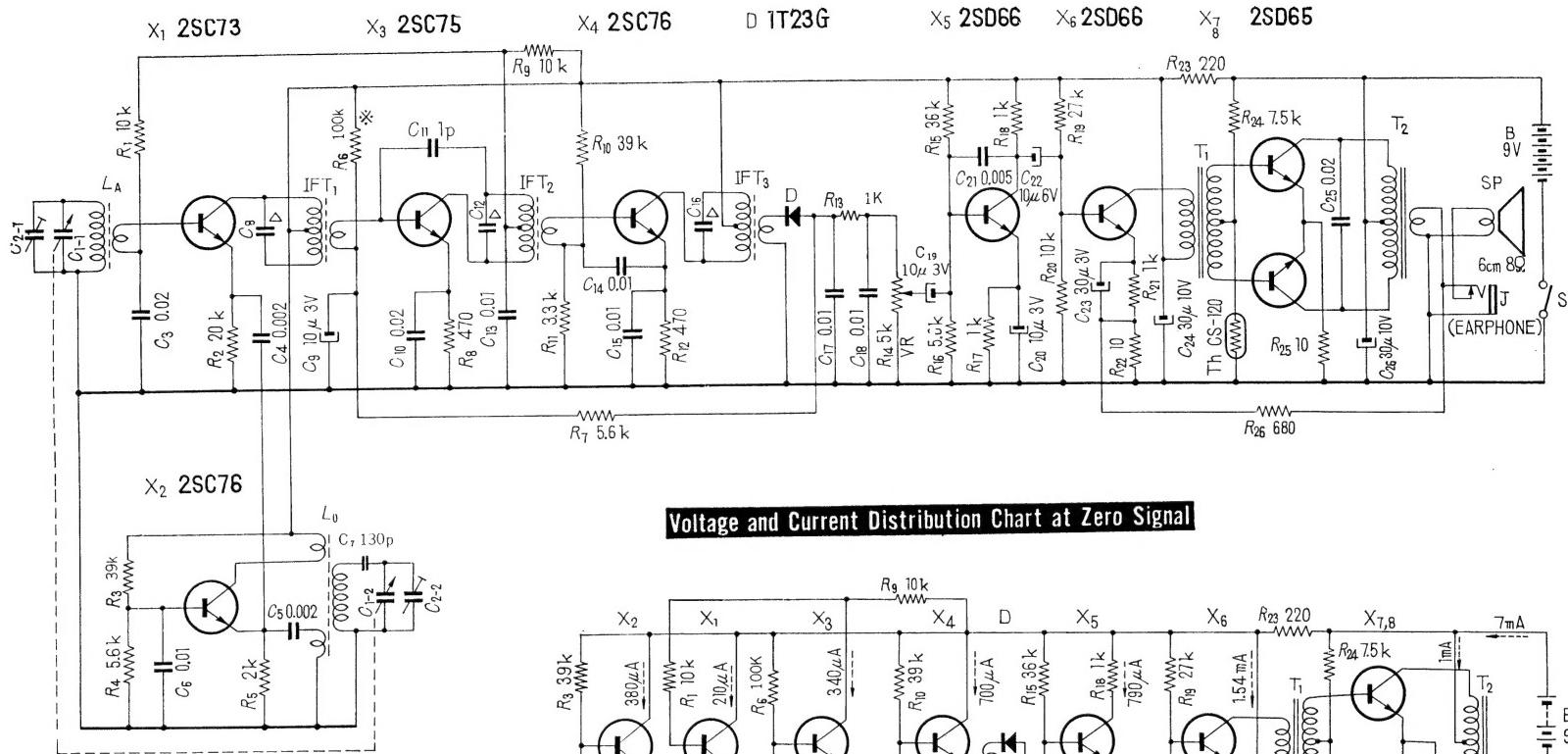
Current and Voltage Distribution Chart at Zero Signal

X₁ 2SC73 X₃ 2SC76 X₄ 2SC77 X₅ 2SD66 X₆ 2SD66 X_{7.8} 2SD65 x2

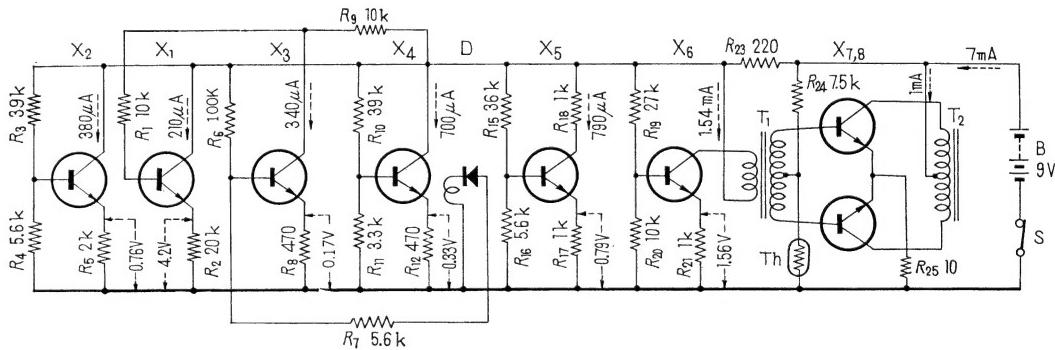


SONY® Transistor Radio Circuits 

Schematic Diagram



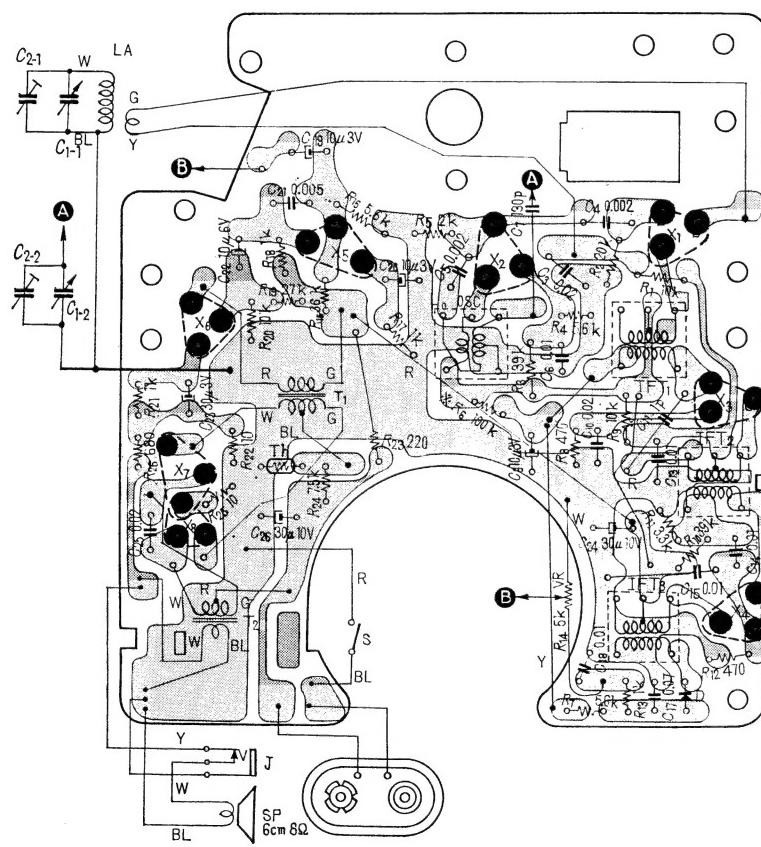
Voltage and Current Distribution Chart at Zero Signal



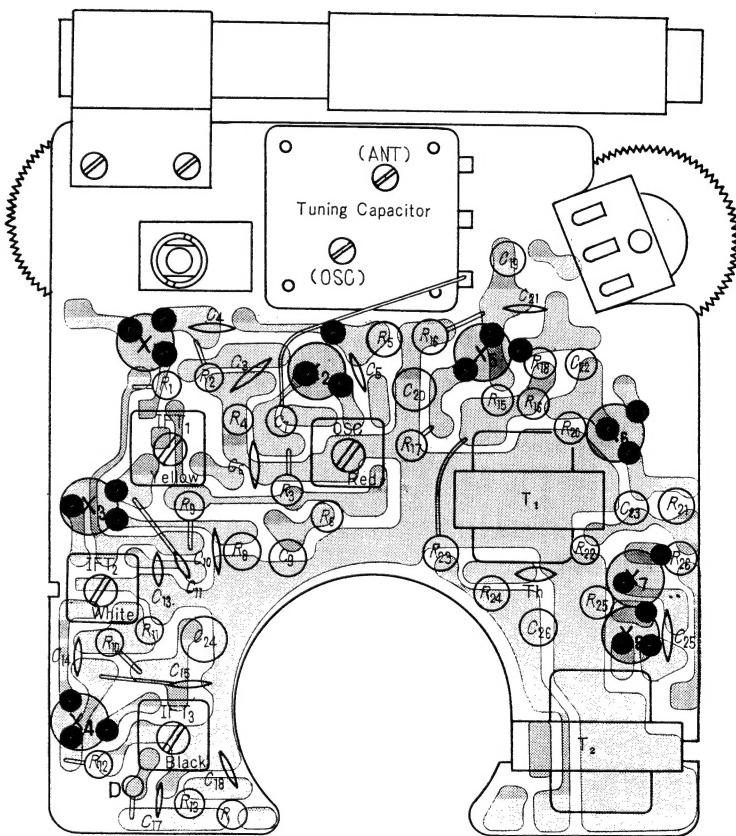
Capacitors marked with "Δ" are built in relative IF Transformers.
※ To be adjusted

Mounting Diagram

-Printed Side-

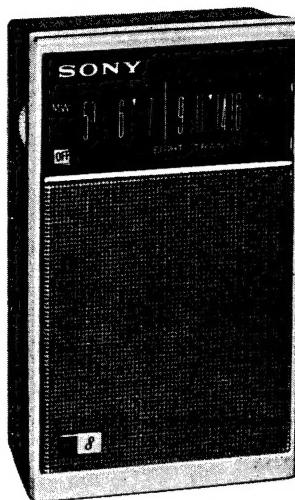


- Parts Side -



TR-826

TR-826



Specifications

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Intermediate Frequency :	455 Kc
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Selectivity :	18 dB at 10 Kc off resonance, at 1,400 Kc
Output Power :	120 mW (undistorted)
Current Drain :	7 mA at zero signal 32 mA at 120 mW output
Speaker :	2-3/8" (6 cm) PM dynamic, 8 Ω
Battery :	Eveready 216 (BL-006P) or Equivalent (9 Volts)
Dimensions :	4-1/8" \times 2-1/2" \times 1-1/8" (105 \times 63 \times 28 mm)
Weight :	0.44 lbs. (0.2 Kg.)

Adjustments

a) Frequency Coverage Adjustment

Lower Limit	Adjust	Upper Limit	Adjust
520 Kc	Core of OSC Coil (L_0)	1,680 Kc	OSC Trimmer (C_{2-2})

b) Tracking Adjustment

Lower Checking Point	Adjust	Upper Checking Point	Adjust
620 Kc	Position of ANT Coil (LA)	1,400 Kc	ANT Trimmer (C_{2-1})